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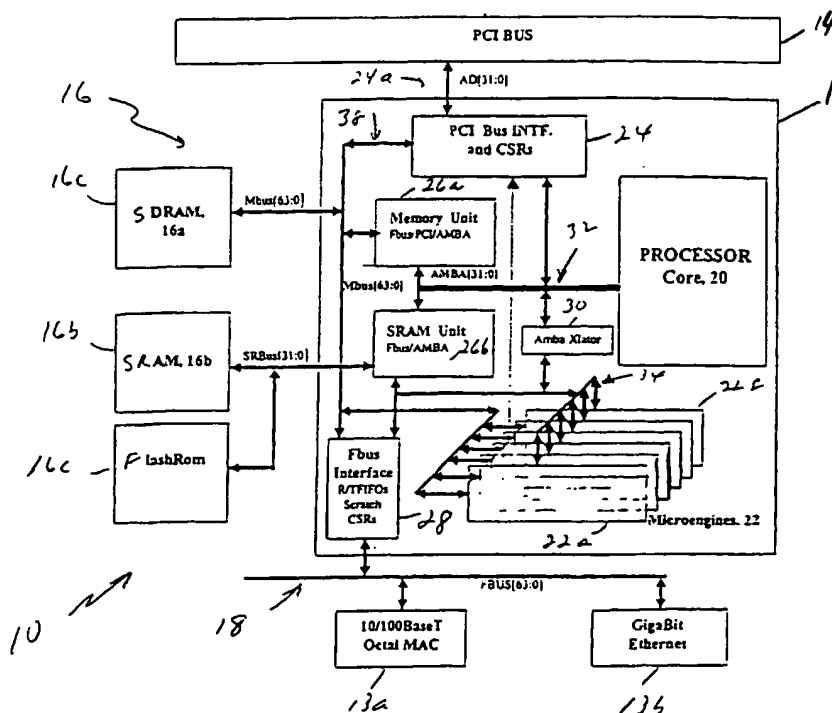
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[Continued on next page]

(54) Title: **DISTRIBUTED MEMORY CONTROL AND BANDWIDTH OPTIMIZATION**



(57) Abstract: A controller for a random access memory has control logic, including an arbiter that detects a status of outstanding memory references. The controller selects a memory reference from one of a plurality of queues of memory references. The control logic is responsive to a memory reference chaining bit that when set allows for special handling of contiguous memory references.



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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7    G06F13/16    G06F9/38		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7    G06F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, IBM-TDB		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 940 866 A (CHISHOLM ET AL) 17 August 1999 (1999-08-17) column 2, line 25 -column 3, line 7 column 5, line 5 -column 7, line 37 column 8, line 8 -column 9, line 10 claims 4,5; figure 3 ---	1,7-12, 16-20
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<div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</span> <span><input checked="" type="checkbox"/> Patent family members are listed in annex.</span> </div>		
<b>* Special categories of cited documents:</b>		
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Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">2 August 2002</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">09/08/2002</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">McDonagh, F</div>

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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